## SEQUENCE LISTING

- <110> BOUGUELERET Lydie
   JEANDENANS Catherine
   PARDO Bruno
- <120> SECRETED POLYPEPTIDE SPECIES ASSOCIATED WITH CARDIOVASCULAR DISORDERS
- <130> DV/4-33620A/GEP
- <140> 10/520,730
- <141> 2005-01-07
- <150> 60/394,576
- <151> 2002-07-08
- <150> 60/438,664
- <151> 2003-01-07
- <150> PCT/EP03/006766
- <151> 2003-06-26
- <160> 14
- <170> FastSEQ for Windows Version 4.0
- <210> 1
- <211> 227
- <212> PRT
- <213> Homo sapiens
- <220>
- <221> PROPEP
- <222> (1)...(227)
- <223> Sequence of CPP 10, the precursor of amino acid sequences of the polypeptides present in plasma samples of individuals with coronary artery disease.
- <221> SIGNAL
- <222> (1)...(22)
- <221> SIMILAR
- <222> (109)...(109)
- <223> Conserved Glu83 in cis (PEBP\_HUMAN numbering)
- <221> BINDING
- <222> (146)...(149)
- <221> BINDING
- <222> (96)...(100)
- <221> DISULFID
- <222> (43)...(64)
- <221> DISULFID
- <222> (30)...(58)

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Met Met Val Val Thr Gly Asp Glu Asp Glu Asn Ser Pro Cys Ala His
Glu Ala Leu Leu Asp Glu Asp Thr Leu Phe Cys Gln Gly Leu Glu Val
               15
                                    20
Phe Tyr Pro Glu Leu Gly Asn Ile Gly Cys Lys Val Val Pro Asp Cys
                               35
Asn Asn Tyr Arg Gln Lys Ile Thr Ser Trp Met Glu Pro Ile Val Lys
Phe Pro Gly Ala Val Asp Gly Ala Thr Tyr Ile Leu Val Met Val Asp
                        65
Pro Asp Ala Pro Ser Arg Ala Glu Pro Arg Gln Arg Phe Trp Arg His
                   80
                                       8.5
Trp Leu Val Thr Asp Ile Lys Gly Ala Asp Leu Lys Glu Gly Lys Ile
                95
                                   100
Gln Gly Gln Glu Leu Ser Ala Tyr Gln Ala Pro Ser Pro Pro Ala His
           110
                                115
                                                   120
Ser Gly Phe His Arg Tyr Gln Phe Phe Val Tyr Leu Gln Glu Gly Lys
       125
                            130
                                                135
Val Ile Ser Leu Leu Pro Lys Glu Asn Lys Thr Arg Gly Ser Trp Lys
                       145
                                            150
Met Asp Arg Phe Leu Asn Arg Phe His Leu Gly Glu Pro Glu Ala Ser
                   160
                                       165
Thr Gln Phe Met Thr Gln Asn Tyr Gln Asp Ser Pro Thr Leu Gln Ala
               175
                                   180
Pro Arg Gly Arg Ala Ser Glu Pro Lys His Lys Asn Gln Ala Glu Ile
           190
                              195
Ala Ala Cys
       205
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<212> PRT
<213> Homo sapiens
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<221> PEPTIDE
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      samples of individuals with coronary artery
      disease
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<222> (74)...(78)
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<222> (8)...(36)
<221> BINDING
<222> (124)...(127)
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Asp Thr Leu Phe Cys Gln Gly Leu Glu Val Phe Tyr Pro Glu Leu Gly
                                25
Asn Ile Gly Cys Lys Val Val Pro Asp Cys Asn Asn Tyr Arg Gln Lys
                            40
                                                45
Ile Thr Ser Trp Met Glu Pro Ile Val Lys Phe Pro Gly Ala Val Asp
                        55
Gly Ala Thr Tyr Ile Leu Val Met Val Asp Pro Asp Ala Pro Ser Arg
                    70
Ala Glu Pro Arg Gln Arg Phe Trp Arg His Trp Leu Val Thr Asp Ile
               85
                                    90
Lys Gly Ala Asp Leu Lys Glu Gly Lys Ile Gln Gly Gln Glu Leu Ser
           100
                               105
Ala Tyr Gln Ala Pro Ser Pro Pro Ala His Ser Gly Phe His Arg Tyr
       115
                            120
                                                125
Gln Phe Phe Val Tyr Leu Gln Glu Gly Lys Val Ile Ser Leu Leu Pro
                        135
                                            140
Lys Glu Asn Lys Thr Arg Gly Ser Trp Lys Met Asp Arg Phe Leu Asn
145
                    150
                                        155
Arg Phe His Leu Gly Glu Pro Glu Ala Ser Thr Gln Phe Met Thr Gln
               165
                                    170
Asn Tyr Gln Asp Ser Pro Thr Leu Gln Ala Pro Arg Gly Arg Ala Ser
           180
                                185
Glu Pro Lys His Lys Asn Gln Ala Glu Ile Ala Ala Cys
                            200
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<213> Homo sapiens
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      disease
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<222> (1)...(22)
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<222> (30)...(58)
<221> SIMILAR
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                            -15
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Glu Ala Leu Leu Asp Glu Asp Thr Leu Phe Cys Gln Gly Leu Glu Val
Phe Tyr Pro Glu Leu Gly Asn Ile Gly Cys Lys Val Val Pro Asp Cys
                                35
Asn Asn Tyr Arg Gln Lys Ile Thr Ser Trp Met Glu Pro Ile Val Lys
                            50
Phe Pro Gly Ala Val Asp Gly Ala Thr Tyr Ile Leu Val Met Val Asp
Pro Asp Ala Pro Ser Arg Ala Glu Pro Arg Gln Arg Phe Trp Arg His
                    80
                                        85
Trp Leu Val Thr Asp Ile Lys Gly Ala Asp Leu Lys Glu Gly Lys Ile
                                    100
Gln Gly Gln Glu Leu Ser Ala Tyr Gln Ala Pro Ser Pro Pro Ala His
            110
                                115
Ser Gly Phe His Arg Tyr Gln Phe Phe Val Tyr Leu Gln Glu Gly Lys
                            130
                                                135
Val Ile Ser Leu Leu Pro Lys Glu Asn Lys Thr Arg Gly Ser Trp Lys
                        145
Met Asp Arg Phe Leu Asn Arg Phe His Leu Gly Glu Pro Glu Ala Ser
                    160
                                        165
Thr Gln Phe Met Thr Gln Asn Tyr Gln Asp Ser Pro Thr Leu Gln Ala
                                    180
Pro Arg Gly Arg Ala Ser Glu Pro Lys His Lys Thr Arg Arg Arg
            190
                                195
<210> 4
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      disease
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<222> (74)...(78)
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<222> (21)...(42)
<221> DISULFID
<222> (8)...(36)
<221> SIMILAR
<222> (87)...(87)
<223> Conserved Glu83 in cis (PEBP HUMAN numbering)
<221> BINDING
<222> (124)...(127)
<400> 4
Phe Pro Gly Ala Val Asp Gly Ala Thr Tyr Ile Leu Val Met Val Asp
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                 5
                                    10
Pro Asp Ala Pro Ser Arg Ala Glu Pro Arg Gln Arg Phe Trp Arg His
            20
                                 25
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Trp Leu Val Thr Asp Ile Lys Gly Ala Asp Leu Lys Glu Gly Lys Ile
       35
                            40
Gln Gly Gln Glu Leu Ser Ala Tyr Gln Ala Pro Ser Pro Pro Ala His
                        55
                                            60
Ser Gly Phe His Arg Tyr Gln Phe Phe Val Tyr Leu Gln Glu Gly Lys
                    70
                                        75
Val Ile Ser Leu Leu Pro Lys Glu Asn Lys Thr Arg Gly Ser Trp Lys
                85
                                    90
Met Asp Arg Phe Leu Asn Arg Phe His Leu Gly Glu Pro Glu Ala Ser
           100
                                105
                                                    110
Thr Gln Phe Met Thr Gln Asn Tyr Gln Asp Ser Pro Thr Leu Gln Ala
      115
                            120
Pro Arg Gly Arg Ala Ser Glu Pro Lys His Lys Thr Arg Arg Arg
                       135
<210> 5
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<212> PRT
<213> Homo sapiens
<220>
<221> PEPTIDE
<222> (1)...(10)
<223> Tryptic peptide found by tandem mass spectrometry
      in plasma samples of individuals with coronary
      artery disease
<400> 5
Ile Thr Ser Trp Met Glu Pro Ile Val Lys
                5
<210> 6
<211> 22
<212> PRT
<213> Homo sapiens
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<221> PEPTIDE
<222> (1)...(22)
<223> Tryptic peptide found by tandem mass spectrometry
      in plasma samples of individuals with coronary
      artery disease
<400> 6
Phe Pro Gly Ala Val Asp Gly Ala Thr Tyr Ile Leu Val Met Val Asp
1
Pro Asp Ala Pro Ser Arg
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<210> 7
<211> 8
<212> PRT
<213> Homo sapiens
<220>
<221> PEPTIDE
<222> (1)...(7)
<223> Tryptic peptide found by tandem mass spectrometry
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artery disease
<400> 7
His Trp Leu Val Thr Asp Ile Lys
                 5
<210> 8
<211> 22
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<213> Homo sapiens
<220>
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<222> (1)...(22)
<223> Tryptic peptide found by tandem mass spectrometry
      in plasma samples of individuals with coronary
      artery disease
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Ile Gln Gly Gln Glu Leu Ser Ala Tyr Gln Ala Pro Ser Pro Pro Ala
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                                    10
His Ser Gly Phe His Arg
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<212> PRT
<213> Homo sapiens
<220>
<221> PEPTIDE
<222> (1)...(11)
<223> Tryptic peptide found by tandem mass spectrometry
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      artery disease
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Tyr Gln Phe Phe Val Tyr Leu Gln Glu Gly Lys
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<210> 10
<211> 7
<212> PRT
<213> Homo sapiens
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<221> PEPTIDE
<222> (1)...(7)
<223> Tryptic peptide found by tandem mass spectrometry
      in plasma samples of individuals with coronary
      artery disease
<400> 10
Val Ile Ser Leu Leu Pro Lys
1
                 5
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in plasma samples of individuals with coronary

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<210> 11
<211> 187
<212> PRT
<213> Homo sapiens
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<221> PROPEP
<222> (1)...(187)
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<400> 11
Met Pro Val Asp Leu Ser Lys Trp Ser Gly Pro Leu Ser Leu Gln Glu
                                    10
Val Asp Glu Gln Pro Gln His Pro Leu His Val Thr Tyr Ala Gly Ala
            20
                                25
Ala Val Asp Glu Leu Gly Lys Val Leu Thr Pro Thr Gln Val Lys Asn
        35
                                                45
                            40
Arg Pro Thr Ser Ile Ser Trp Asp Gly Leu Asp Ser Gly Lys Leu Tyr
    50
                        55
Thr Leu Val Leu Thr Asp Pro Asp Ala Pro Ser Arg Lys Asp Pro Lys
                    70
                                        75
Tyr Arg Glu Trp His His Phe Leu Val Val Asn Met Lys Gly Asn Asp
                                    90
Ile Ser Ser Gly Thr Val Leu Ser Asp Tyr Val Gly Ser Gly Pro Pro
           100
                                105
                                                     110
Lys Gly Thr Gly Leu His Arg Tyr Val Trp Leu Val Tyr Glu Gln Asp
        115
                            120
                                                125
Arg Pro Leu Lys Cys Asp Glu Pro Ile Leu Ser Asn Arg Ser Gly Asp
   130
                        135
His Arg Gly Lys Phe Lys Val Ala Ser Phe Arg Lys Lys Tyr Glu Leu
                   150
                                        155
Arg Ala Pro Val Ala Gly Thr Cys Tyr Gln Ala Glu Trp Asp Asp Tyr
                165
                                    170
Val Pro Lys Leu Tyr Glu Gln Leu Ser Gly Lys
<210> 12
<211> 187
<212> PRT
<213> Bos taurus
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<221> PROPEP
<222> (1)...(187)
<223> Sequence of the bovine
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      protein (PEBP_BOVIN, NCBI accession number P13696)
<400> 12
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1
                5
                                    10
                                                         15
Val Asp Glu Arg Pro Gln His Pro Leu Gln Val Lys Tyr Gly Gly Ala
            20
                                25
                                                     30
Glu Val Asp Glu Leu Gly Lys Val Leu Thr Pro Thr Gln Val Lys Asn
                            40
                                                 45
Arg Pro Thr Ser Ile Thr Trp Asp Gly Leu Asp Pro Gly Lys Leu Tyr
                        55
Thr Leu Val Leu Thr Asp Pro Asp Ala Pro Ser Arg Lys Asp Pro Lys
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70
                                       75
Tyr Arg Glu Trp His His Phe Leu Val Val Asn Met Lys Gly Asn Asn
               85
                                90
Ile Ser Ser Gly Thr Val Leu Ser Asp Tyr Val Gly Ser Gly Pro Pro
                              105
Lys Gly Thr Gly Leu His Arg Tyr Val Trp Leu Val Tyr Glu Gln Glu
       115
                          120
                                              125
Gly Pro Leu Lys Cys Asp Glu Pro Ile Leu Ser Asn Arg Ser Gly Asp
                       135
                                           140
His Arg Gly Lys Phe Lys Val Ala Ser Phe Arg Lys Lys Tyr Glu Leu
                   150
                                       155
Gly Ala Pro Val Ala Gly Thr Cys Tyr Gln Ala Glu Trp Asp Asp Tyr
                                  170
              165
                                                       175
Val Pro Lys Leu Tyr Glu Gln Leu Ser Gly Lys
<210> 13
<211> 242
<212> PRT
<213> Mus musculus
<220>
<221> PROPEP
<222> (1)...(242)
<223> Q9D9G2, a mouse ortholog of the CPPs
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Ala Gly Leu Trp Val Gly Leu Ser Leu Thr Ala Glu Ser Ile Glu Glu
           20
                               25
                                                   30
Gly Lys Pro Gly Gly Glu Lys Pro Gly Gly Lys Pro Gly Gly Ser
                           40
                                               4.5
Gly Arg Gly Cys Phe Leu Pro Pro Leu Pro Lys Glu Asp Val Ser Leu
                       55
                                           60
Cys Arg Asn Leu Glu Val Phe Tyr Met Glu Met Gly Asn Ile Ser Cys
                   70
                                       75
Lys Ile Val Pro Lys Cys Asn Leu Tyr Arg Gln Lys Ile Pro Ala Trp
                                   90
Gln Ala Pro Ile Val Lys Phe His Thr Ala Leu Asp Gly Ala Leu Tyr
           100
                               105
                                                   110
Leu Leu Val Met Val Asp Pro Asp Ala Pro Ser Arg Ser Asn Pro Val
                           120
                                               125
Met Lys Tyr Trp Arg His Trp Leu Val Ser Asn Ile Thr Gly Ala Asp
                       135
                                          140
Met Lys Ser Gly Ser Ile Arg Gly Asn Val Leu Ser Asp Tyr Ser Pro
                   150
                                       155
Pro Thr Pro Pro Glu Thr Gly Val His Arg Tyr Gln Phe Phe Val
               165
                                   170
                                                       175
Tyr Leu Gln Gly Asp Arg Asp Ile Ser Leu Ser Val Glu Glu Lys Ala
                               185
Asn Leu Gly Gly Trp Asn Leu Asp Lys Phe Leu Gln Gln Tyr Gly Leu
                           200
                                               205
Arg Asp Pro Asp Thr Ser Thr Gln Phe Met Thr Gln Phe Asp Glu Glu
                       215
                                           220
Leu Ser Ser Glu Phe Gly Arg Ile Asn Asp Asp Gln Glu Gln Phe Asn
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230

Gln Lys

235

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<210> 14
<211> 121
<212> PRT
<213> Mus musculus
<220>
<221> PROPEP
<222> (1)...(121)
<223> Q9D9L9, a mouse ortholog of the CPPs
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Ala Gly Leu Trp Val Gly Leu Ser Leu Thr Ala Glu Ser Ile Glu Glu
                             25
Gly Lys Pro Gly Gly Glu Lys Pro Gly Gly Gly Lys Pro Gly Gly Ser
                        40
                                         45
Gly Arg Gly Cys Phe Leu Pro Pro Leu Pro Lys Glu Asp Val Ser Leu
   50
                      55
                                      60
Cys Arg Asn Leu Glu Val Phe Tyr Met Glu Met Gly Asn Ile Ser Cys
           70
                          75
Lys Ile Val Pro Lys Cys Asn Leu Tyr Arg Gln Lys Ile Thr Ala Trp
             85
                               90
Gln Ala Pro Ile Val Lys Phe His Thr Ala Leu Asp Val Ser Glu Leu
        100
                    105
Gly Trp Leu Lys Glu Asn Val Gly Pro
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115